User's Manual

Performance Plus Series

Plus1000 Series
- SOHO File Server -

This manual is intended only as a guide for Antec's Computer Enclosures. For more comprehensive instructions, please refer to the user's manuals which come with your components and drives.

Antec
Performance

Plus1000 Series - SOHO File Server

The Antec TruePower power supply that comes with this case is equipped with TruePower circuitry which, among other features, allows the power supply fans to be constantly monitored and controlled. Based on the demands of your system, the fans will rotate as slowly as possible to keep noise at an absolute minimum and overall noise will be much lower than in power supplies equipped with traditional thermally-controlled fans.

Additionally, your TruePower power supply can monitor the system case fans. There are two dedicated fan connectors marked Fan Only from the power supply to connect system case fans to. You may connect your case fans to it and have the TruePower circuitry control the speed of the case fans.

Note: Please do not connect more than three external fans to the Fan Only connectors in any combination (i.e. 2 and 1, 3 and 0). For maximum cooling you may choose to connect the case fans to the regular 4-pin peripheral connectors, but in this fashion noise will not be reduced.

The power supply comes with a main power switch. Make sure you turn the switch to the ON position before you boot up your computer for the first time. In normal operation there is no need to turn the switch to the OFF position since the power supply is equipped with soft on/off feature which turns your computer on and off through the soft switch on your computer case. You may need to turn the switch to the OFF position occasionally, should your computer crash and prevent you from shutting down the computer through the soft switch.

Disclaimer
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Basics
1. Take the case out of the box.
2. Remove the Styrofoam.
3. Remove the plastic bag.
4. Place the case upright with the power supply fan at the back facing you on a stable flat surface.
5. Remove the screws and unlock the side panel (the one with the latch), swing the panel out, and remove.
   Note: Please don't try to use your fingernails to pry or lift the panels.
6. Inside the case you should see the power supply, some wiring with marked connectors (USB, IEEE1394, PWR etc.), an installed I/O panel, a power cord and a plastic bag containing more hardware (screws, brass standoffs, plastic stands, etc.) and eight Drive Rails.

Motherboard Installation
This manual is not designed to cover CPU, RAM, or expansion card installation. Please consult your motherboard manual for specific mounting instructions and troubleshooting.
1. Lay the case down so that the open side is up. You should be able to see the drive cage and power supply.
2. Make sure you have the appropriate I/O panel for your motherboard. If the panel provided is not suitable for your motherboard, please contact your motherboard manufacturer for the correct I/O panel.

3. Line up the motherboard with the standoff holes, and determine which ones line up and remember where they are. (**Note:** Not all motherboards will match with all of the provided screw holes, and this is not necessary for proper functionality. In other words there will likely be extra holes.)
4. Lift up and remove your motherboard.
5. Screw in the brass standoffs to the threaded holes that line up with your motherboard.
6. Place your motherboard on the brass standoffs.
7. Screw in your motherboard to the standoffs with the provided metallic Phillips- head screws.
8. Your motherboard is now installed into the case.

Power/LED Connections
The Antec TruePower supply is an ATX12V form factor power supply. An ATX12V power supply has a single 20-pin Main Power Connector, a 6-pin AUX Power Connector, and a 4-pin +12V Power Connector for the motherboard. It also comes with seven 4-pin Peripheral Power Connectors and two 4-pin Floppy Drive Power Connectors for your drives. It is backwards-compatible to previous ATX form factor power supplies. If your motherboard does not support the AUX Power Connector or the +12V Power Connector, you can still use this power supply.

The TruePower power supply is also equipped with a 3-pin fan signal connector. Connect it to one of the fan connectors on your motherboard. You may monitor the speed of the rear power supply fan through your motherboard BIOS or through the monitoring software that comes with your motherboard.
Note: The speed of the fan go as low as 1500 RPM when the temperature is low. At these speeds some motherboards may not be able to detect the fan speed adjustment during the boot up stage. Please refer to your motherboard manual for proper fan monitoring set up.
1. Connect the 20-pin ATX power connector and other power connectors to your motherboard.
2. Reset (labeled RESET SW) connects to your motherboard at the RST connector. The label should be facing the front of the case, and for all of the following connectors as well.
3. Power LED (labeled POWER LED) connector is located behind the Reset connector.
4. Power Switch (labeled POWER SW) connects to the PWR connector on the motherboard.
5. Speaker (labeled SPEAKER) connector is behind the PWR connector.
6. Hard Drive LED (labeled H.D.D. LED) connects to the IDE connector.
7. LED I, LED II connectors: This case comes with two extra LED marked LED I, LED II. You may use these LED for various purposes such as SCSI LED, Message LED (blinks when your modem received fax or mail).

USB Connection
There are 8 wires with connectors coming out from the front mounted USB ports of the case.
1. Locate the internal USB port on your motherboard. It should contain a 10-pins in two rows.
   Note: On some motherboards one or two pins may be marked as NC. This indicates no contact. It is an empty pin. You don't need to use it. On some motherboards one pin may be missing on either one or both rows. Don't worry about it. You only need 8 pins to connect to.
2. Consult your motherboard manual to get each of the pin-out positions.
3. Power Pins: There are two power pins, one on each row. They are usually marked as Power, Vcc or +5V. Connect the two +5V connectors to the two power pins. Each connector can go to either pin.
4. Ground Pins: There are two ground pins, one on each row. They are usually marked as Ground or GND. Connect the two GROUND connectors to the two ground pins. Each connector can go to either pin.

Note: On some motherboards, there may be two ground pins on one row. You don't need to use all of them. Make sure to connect one ground pin on each row.

5. Data Pins: There are two plus data pins, one on each row, and two minus data pins, one on each row. They are usually marked as USBD2+, USBD3+ and USBD2-, USBD3- or USBP2+, USBP3+, and USBP2-, USBP3- respectively.
   a. Connect the ①+D connector to any of the two plus data pins. It can go to either of the plus pin.
   b. Connect the ①-D connector to the minus data pin in the same row with the plus data pin that ①+D connector has just connected to.
   c. Repeat the same procedures to connect the ②+D and ②-D to the motherboard. Make sure they are in the same row.

IEEE1394 (FireWire, I-Link) Connection

There are six wires with connectors coming out from the front mounted IEEE1394 port of your case. They consist of 2 sets of twisted pair cables - TPA (Twisted Pair A) and TPB (Twisted Pair B), a power cable (VP), and a ground cable (VG).

1. Locate and identify the pin-out of the IEEE1394 port on your motherboard.
2. Power Pin: Connect the VP connector to it.
3. Ground Pin: Connect the VG connector to it.
4. Data Pins: There are two sets of data pins. Each set consists of a plus and a minus pin. They are usually marked as TPA+ and TPA-, TPB+ and TPB-.
   a. Connect the TPA+ connector to the TPA+ data pin and TPA- connector to the TPA- data pin.
   b. Connect the TPB+ connector to the TPB+ data pin and TPB- connector to the TPB- data pin.

3.5" Device Installation

With the front bezel facing you, swing the plastic bezel cover out. You can see there are four 5.25" and two 3.5" external drive bays.
Inside the case there are two 3.5" drive cages.

1. Pull the quick release lever towards the rear of the case and release the top cage first. Looking from the rear of the case you can see some metal grills over the exposed (external) drive bays. Carefully put a screwdriver through the metal grill and gently push the plastic drive bay cover until it comes off. Carefully use your hands to twist the metal plate back and forth until it breaks off.
   Note: Don't take off the covers and plates for the drive bays that you are not using now. Be careful of the newly exposed metal where the grills were attached, as these areas are likely to be sharp.
2. Install your floppy drive into the top drive bay.
3. Mount your other 3.5" device into the drive cage.
4. Slide and lock the drive cage back into the case.
5. Release the second cage. Note: Inside the cage you will find a fan bracket. This is for one of the optional 80mm cooling fans. If you want to install the optional fan you should do it now. For fan installation please see the Fan Installation section of this manual.
6. Mount your other 3.5" devices into the drive cage.
7. Slide and lock the drive cage back into the case.
8. Find a small 4-pin white connector on the power supply and connect it to the male 4-pin connector on the floppy drive.
9. Connect a large 4-pin white connector from the power supply to the male 4-pin connector on each of the other devices.

5.25" Device Installation

1. Take off the plastic drive bay covers and metal plates as described above.
2. Take two of the Drive Rails and mount them onto the sides of the 5.25" device. Make sure the metal portion is angled away from the device and facing forward.
3. Slide the device into the drive bay until you hear a click.
4. Mount the other devices accordingly. Connect a large 4-pin white connector from the power supply to the male 4-pin connector on each of the devices.

IDE Cable Connection

This is for IDE devices only.
After you have connected the devices to the power supply, you need to connect the IDE cables between the devices and the motherboard.

1. For hard drives and CD-ROM's, use the 40-pin IDE ribbon cables. For floppy drives, use the 34-pin IDE ribbon cables. These should come with your devices and have a red strip on side indicating pin number 1. When you connect a ribbon cable to a device, make sure that the red strip is toward the power connector.
2. The side that attaches to devices should be the side that has 2 connectors. This will enable you to connect another device if you wish.
3. Connect the far end of the cable to your motherboard on the IDE port, either IDE 1 or IDE 2.

Fan Installation

The case comes preinstalled with either two 80mm cooling fans in the rear and one 80mm cooling fan on the side panel, or two 80mm cooling fans in the rear. The fans are installed in the manner that the air is blowing out of the case.

Fan Only Connectors: We recommend our users to connect up to three case fans to the Fan Only connectors so the TruePower supply can control the speed of the fans. When the temperature inside the case is low, the fans will rotate at a lower speed for quiet operation. When the temperature rises, the fans speed up to cool the case down. DO NOT connect other electronic equipment to the FAN ONLY power connectors.

Optional Cooling fans: The case has two optional 80mm cooling fans that can be installed in the front of the case. One of the optional fans is located inside the lower 3.5" drive cage. You should install the fan first before you mount your drives into the cage. Install the fans at the manner that the air is bowing into the case to create a steady airflow from the front to the rear.
Note: Antec cooling fans blow in the direction that the Antec logo is facing.

1. With the Antec logo facing inwards, drop the fan into the fan bracket and push it in until it clips on.
2. Connect a large 4-pin white connector from the power supply to the male 4-pin connector on each of the fans.

Washable Air Filter Maintainence

From time to time it will be necessary to wash the installed air filter. Not washing the air filter will result in higher system temperatures and stability problems. We recommend checking the air filter once a month initially. The frequency will change depending on system usage (users who's systems run 24/7 will likely have to check/wash more often then those who don't use their systems every day).

Antec Quality 3 year Warranty (AQ3)

Antec, Inc., warrants this product to be free from defects resulting from faulty manufacture of faulty components under the following terms:

I. Warranty Length
Parts and labor are warranted for three (3) years from the date of purchase. Replacement products will be warranted for the remainder of the warranty period or thirty days, whichever is longer.

II. Who Is Protected
This warranty is enforceable only by the original consumer purchaser.

III. What Is And Is Not Covered
It is important to note that our warranty is not an unconditional guarantee for the 3-year length of the warranty. Antec Products are made from the finest materials available under our exacting manufacturing standards. But, like any other product, they are not indestructible. Therefore, our warranty does not cover product damage that may result from abuse or mishandling of the products, nor does it cover incidental or consequential damage.

Also, as with any product, it should be expected that component parts, moving parts, wheels, etc. will show wear with use over time, and eventually may need to be refurbished or replaced. This type of normal wear and tear is naturally not covered by our warranty, but we will always be happy to provide you with prompt, high-quality repair service at a nominal cost.

All Antec products are covered by this 3 year warranty except keyboards, monitors and any product purchased before the inception of this warranty program which is November 1, 2000.

The following are not covered by the warranty:
1. Any product on which the serial number has been defaced, modified, or removed.
2. Damage, deterioration or malfunction resulting from:
   a. Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use unauthorized product modification or failure to follow instructions included with the product.
   b. Repair or attempted repair by anyone not authorized by Antec, Inc.
   c. Any shipment damage (claims must be made with the carrier).
   d. Any other causes which does not relate to a product defect.
3. Cartons, cases, batteries, cabinets, tapes or accessories used with this product.
4. Antec, Inc. does not warrant that this product will meet your requirements. It is your responsibility to determine the suitability of this product for your purpose.
5. Removal or installation charges.
6. Shipping charges.
7. Any incidental charges.

IV. Exclusion Of Damages
Antec's sole obligation and liability under this warranty is limited to the repair or replacement of a defective product at our option. Antec shall not, in any event, be liable to the purchaser or any third party for any incidental or consequential damage (including, but not limited to, damages resulting from interruption of service and loss of business), or liability in tort relating to this product or resulting from its use or possession.

V. Limitations Of Implied Warranties
There are no other oral or written warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. The duration of implied warranties is limited to the warranty length specified in Paragraph I.

VI. State Law And Your Warranty
This warranty gives you specific legal rights. You may also have other rights granted under state law. These rights vary from state to state.

VII. Warranty Registration
It is not necessary to send anything to Antec, Inc. to register your products. In the event that warranty service is required, Antec, Inc. will request proof of purchase (detailed store receipt or invoice).

VIII. For Warranty Service
If the products need repair, return them to the dealer from whom you purchased the product. All products returned to Antec for warranty service must have prior approval, which your dealer can obtain by calling Antec, Inc. at (510) 770-1200.

If the repair is required within the warranty period, enclose the proof of purchase with the defective product and return it to the dealer. During the warranty period, your product will be repaired or replaced without charge, excluding shipping and handling.

To return your product for service, package the product securely in its original packaging and ship it postpaid. Your dealer or Antec will not be responsible for the damage due to shipping. Remember to enclose your proof of purchase and a clear description of the problem.

IX. For Out-of-Warranty Service
If the repair is required after the warranty period there will be a charge for service and parts. Contact Antec, Inc. at (510) 770-1200 ext. 330 for a repair estimate on your out-of-warranty product.

X. How To Call For Technical Support At Antec
If you need help installing or troubleshooting a product call our Technical Support Voice Message System at 1-800-22-Antec (1-800-222-6832). Because Antec, Inc. wants to provide the convenient and comprehensive technical support our customers deserve, our policy is to return your call within one hour if you call during our office hours, Monday through Friday, 8:30 a.m. to 5:00 p.m. Pacific Time. The customer service line is open 24 hours a day, every day. Messages left after office hours will be returned as soon as possible.